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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,571	07/21/2004	Arthur J. Lewis	236905212004	4570
26496	7590 08/28/2006		EXAMINER	
GREENBERG & LIEBERMAN, LLC 2141 WISCONSIN AVE, N.W. SUITE C-2 WASHINGTON, DC 20007			VANORE, DAVID A	
			ART UNIT	PAPER NUMBER
			2881	

DATE MAILED: 08/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/710,571	LEWIS, ARTHUR J.				
Office Action Summary	Examiner	Art Unit				
	David A. Vanore	2881				
The MAILING DATE of this communication appeared for Reply	opears on the cover sheet with th	e correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply but divide apply and will expire SIX (6) MONTHS fute, cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	Responsive to communication(s) filed on					
	is action is non-final.					
·						
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application	4) Claim(s) 1-13 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-13</u> is/are rejected.	☑ Claim(s) <u>1-13</u> is/are rejected.					
7)⊠ Claim(s) <u>11 and 12</u> is/are objected to.	Claim(s) 11 and 12 is/are objected to.					
8) Claim(s) are subject to restriction and	B) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>21 July 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a n	st of the certified copies not rece	avea.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Ma					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 7/21/04.	arr atent ryphication (FTO-132)					

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on July 21, 2004 is being considered by the examiner.

Claim Objections

2. Claims 11-12 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claims 11-12 recite that the diameter of the aperture or the measurement of a space between anode and cathode may vary depending on a desired wavelength size. Setting forth that the dimension may vary does not limit the dimension of the aperture or space between anode and cathode.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-3 and 5-13 rejected under 35 U.S.C. 102(b) as being clearly anticipated by Kommrusch (USPN 4,996,188).

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5. Kommrusch teaches a superconductor device comprising a superconductor structure comprising YBCO, the device comprising further a superconductor reflector (Item 16), a first tube and second tube (Items 20), which are coupled to resonating elements item 16 and 18 which are in communication with a positive and negative electrode, or anode and cathode as recited in claims 1-2.

- 6. Regarding claims 3 and 11, the structure (Item 14) has an aperture extending through its length to accommodate Items 20.
- 7. Regarding claims 5-6, the tubes are composed of quartz, which is a thermally tempered glass.
- 8. Regarding claims 7-8, Item 14 comprises a first tube, Item 20 comprises a second tube, the second tube is in the first tube.
- 9. Regarding claims 9, 12, and 13, the anode and cathode are part of a coaxial cable (Item 27) which supplies an RF signal to the device. The space between the anode and cathode regions of a coaxial cable are smaller than the diameter of the aperture through which Items 20 are set.
- 10. Regarding claim 10, the diameter of the apertures are consistent, as illustrated in Fig. 1.

Claim Rejections - 35 USC § 103

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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12. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Kommrusch (USPN 4,996,188).

13. Kommrusch teaches all the required limitations of claim 1.

14. Kommrusch fails to teach or suggest that the reflector is removable.

15. Modifying the device of Kommrusch to make a reflector removable produces no

new and unexpected result.

16. It would have been obvious to one having ordinary skill in the art at the time the

invention was made to make any of the elements, including the reflector, removable

because such a modification to make elements of the prior art separable has been held

to be an obvious modification of the prior art.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to David A. Vanore whose telephone number is (571) 272-

2483. The examiner can normally be reached on M-F 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John R. Lee can be reached on (571) 272-2477. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David A Vanore Primary Examiner Art Unit 2881

dav